Operating Systems

Components of OS (I)

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Software Classification
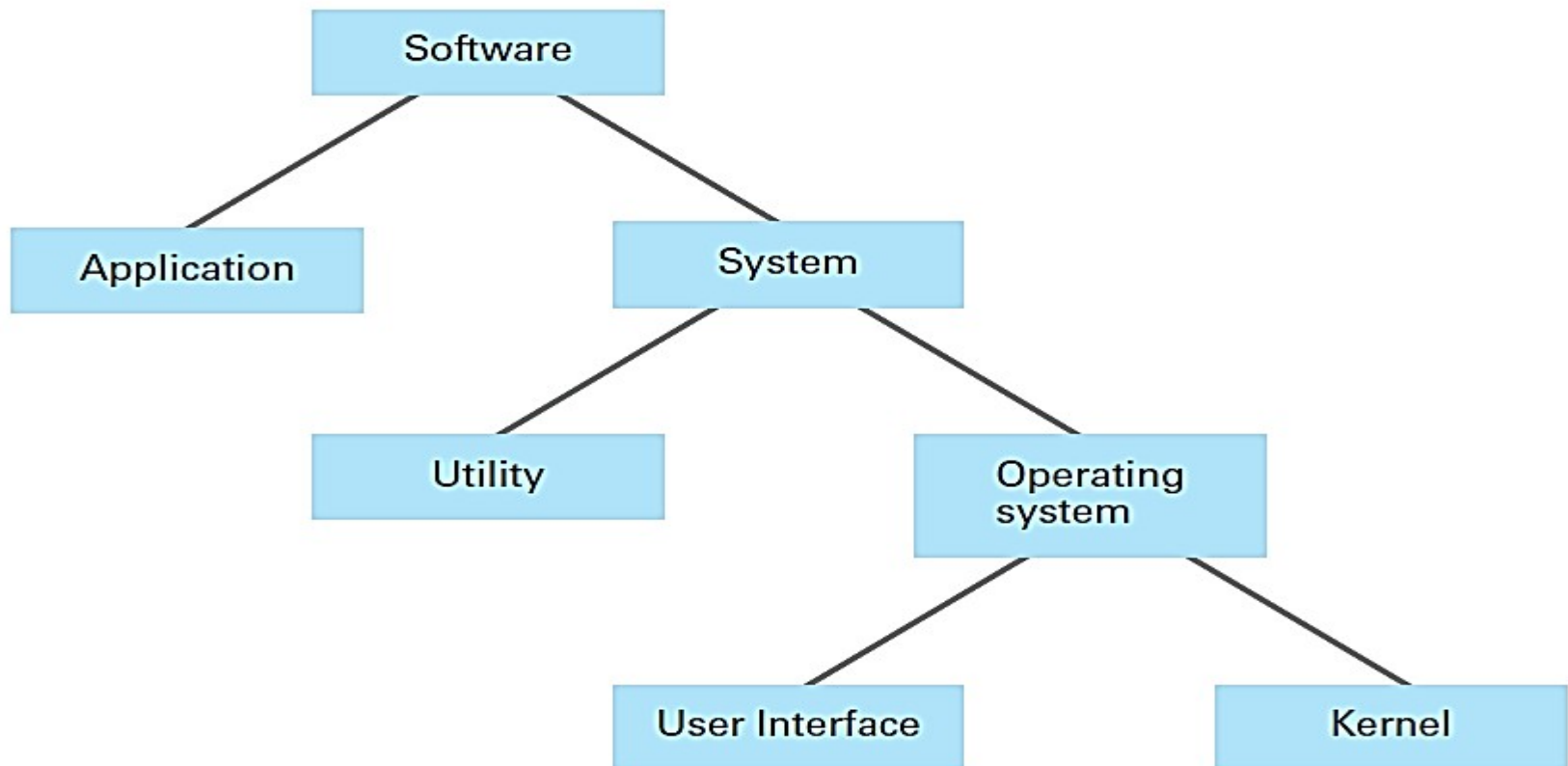
Inside OS

- ✓ User requests some actions and OS communicates with the user.
- ✓ The portion handles communication with user called "User Interface".
- ✓ Older interfaces known as **Shell** – communicates using text messages.

Inside OS

- ✓ Modern systems perform through **Graphical User Interface (GUI)**, pictorial representation as icons. Support mouse, pointing devices, touch screen can be handled with fingers.
- ✓ Early GUI applications could be loaded from MS-DOS.
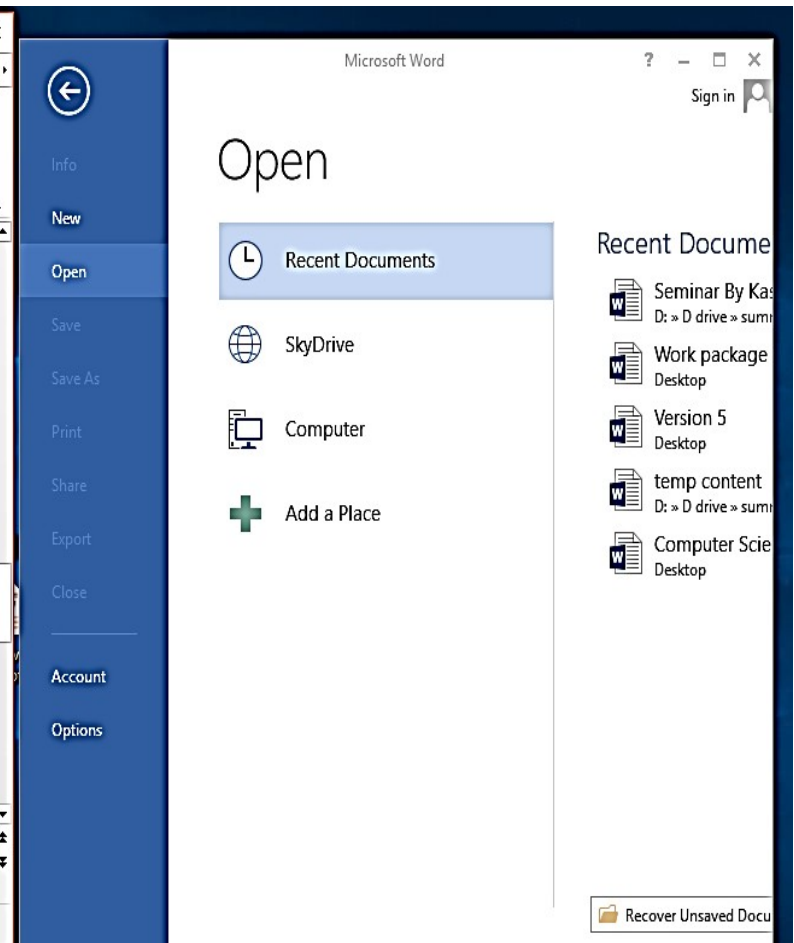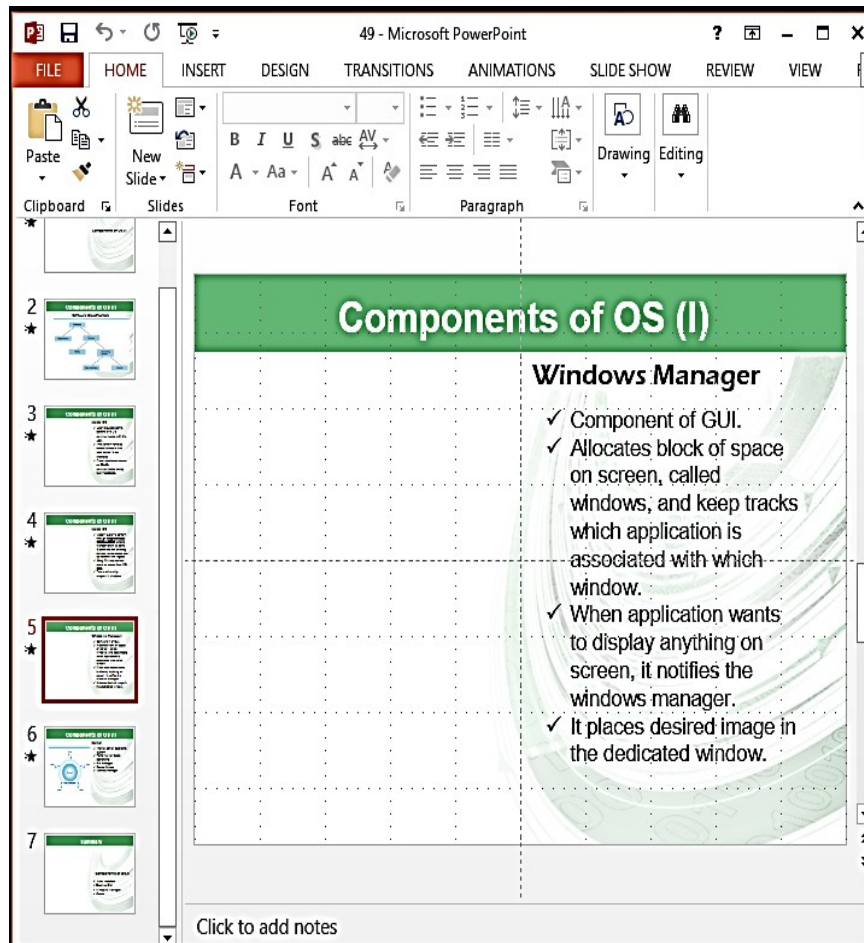- ✓ This is still a utility program in windows.

Windows Manager

- Component of GUI.
- ✓ Allocates block of space on screen, called windows, and keep tracks which application is associated with which window.
- ✓ When application wants to display anything on screen, it notifies the windows manager.
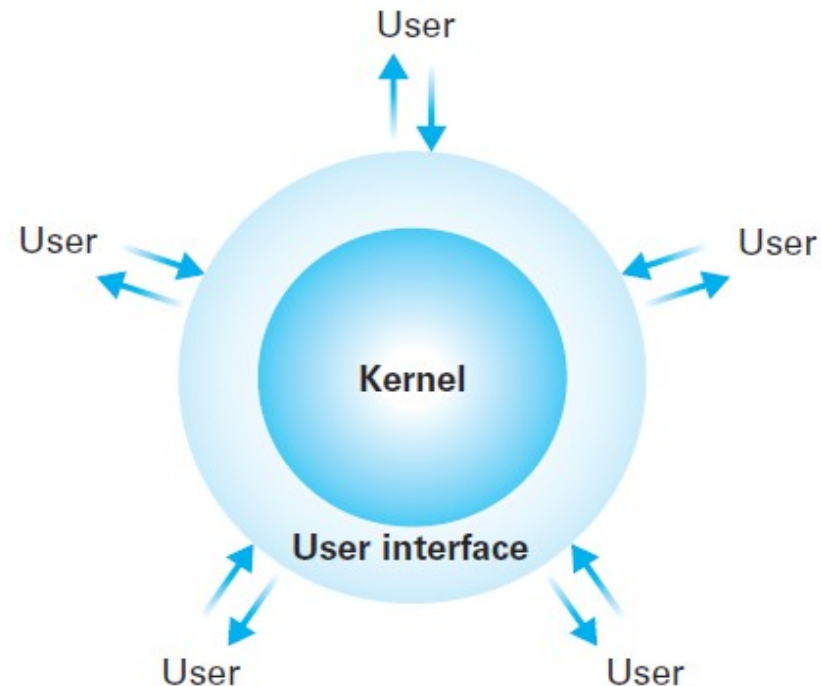- ✓ It places desired image in the dedicated window.

Components of OS

Components of OS

Kernel

- ✓ Internal part of Operating System.
- ✓ Performs very basic ope
- ✓ File manager
- ✓ Device Drivers
- ✓ Memory manager

Components of OS (I)

- ✓ .User Interface
- ✓ Shell vs GUI
- ✓ Windows Manager
- ✓ Kernel